

IN THE CLAIMS:

Please amend claims 1-19, 25, 29, 52, and 54 as follows.

1. (Currently Amended) An apparatus ~~cellular receiver device~~, comprising:
a cellular receiver configured to enable receipt of data from a data source of a
cellular network domain; and
a radio broadcast access unit configured to provide conditional access to a digital
radio broadcast data channel to enable receipt of said data from said data source via said
digital radio broadcast data channel, so that data can be received outside the coverage of
said cellular network domain using said broadcast channel and a cellular channel in an
alternative way.
2. (Currently Amended) An apparatus ~~receiver device~~ according to claim 1,
wherein said radio broadcast access unit comprises at least one of a ciphering function
and an access function for realizing said conditional access.
3. (Currently Amended) An apparatus ~~receiver device~~ according to claim 2,
wherein said at least one of said ciphering and said access function is based on security
parameters.

4. (Currently Amended) An apparatus ~~receiver device~~ according claim 1, wherein said radio broadcast access unit is configured to receive message objects belonging to a predetermined application identification which indicates said data.

5. (Currently Amended) An apparatus ~~receiver device~~ according to claim 4, wherein said radio broadcast access unit is configured to extract an unencrypted mobile subscriber identity from a received message object and to compare the unencrypted mobile subscriber identity with a mobile subscriber identity of said radio broadcast access unit.

6. (Currently Amended) An apparatus ~~receiver device~~ according to claim 5, wherein said radio broadcast access unit is configured to extract and decrypt said received message object in response to a comparison result.

7. (Currently Amended) An apparatus ~~receiver device~~ according to claim 6, wherein decryption of said received message is based on latest valid security parameters allocated to said mobile subscriber identity.

8. (Currently Amended) An apparatus ~~receiver device~~ according to claim 7, wherein said security parameters comprise at least one of a temporary ciphering key and a temporary identity.

9. (Currently Amended) An apparatus ~~receiver device~~ according to claim 4, wherein said radio broadcast access unit is configured to discard said received message object if said message object has already been received by said cellular receiver.

10. (Currently Amended) An apparatus ~~receiver device~~ according to claim 4, wherein said message object is one of a ~~Short Message Service~~ short message service message and a ~~Multimedia Message Service~~ multimedia message service message.

11. (Currently Amended) An apparatus ~~receiver device~~ according to claim 1, wherein said digital radio broadcast channel comprising one of a channel of a ~~Digital Radio Mondiale~~ digital radio mondiale system and a ~~Digital Audio Broadcast~~ digital audio broadcast system.

12. (Currently Amended) An apparatus ~~receiver device~~ according to claim 3, further comprising:

a client configured to set up a connection to a server via said cellular network domain so as to obtain new security parameters.

13. (Currently Amended) An apparatus ~~receiver device~~ according to claim 12, wherein said client is configured to perform a setup each time a predetermined lifetime has elapsed.

14. (Currently Amended) An apparatus ~~receiver device~~ according to claim 12, wherein said client comprises a SyncML client.

15. (Currently Amended) An apparatus ~~receiver device~~ according to claim 12, further comprising:

a register configured to store said obtained security parameters.

16. (Currently Amended) An apparatus ~~receiver device~~ according to claim 12, wherein said client is configured to use initial security parameters for authentication during a connection setup.

17. (Currently Amended) An apparatus ~~receiver device~~ according to claim 12, wherein said client is configured to retry connection attempts at regular time intervals, if a previous connection setup has failed.

18. (Currently Amended) An apparatus ~~receiver device~~ according to claim 12, wherein said client is configured to delete said stored security parameters after a predetermined lifetime without successful connection attempts has passed.

19. (Currently Amended) An apparatus ~~receiver device~~ according to claim 1, wherein said radio broadcast access unit comprises a service client configured to enable

access to at least one of ~~IP~~internet protocol services and email services via said radio broadcast data channel.

20. (Previously Presented) A server device, comprising:

a gateway configured to receive data from an external data source and to map a destination address of received data to a mobile subscriber identity; and

an adder configured to add said mobile subscriber identity to said received data, and to put said received data with said mobile subscriber identity to a data stream to be broadcast via a digital radio broadcast channel so that data can be received outside the coverage of a cellular network domain using said broadcast channel and a cellular channel in an alternative way.

21. (Previously Presented) A server device according to claim 20, further comprising:

a queuing unit configured to queue said data stream with said received data in chronological order.

22. (Previously Presented) A server device according to claim 20, wherein said gateway is configured to encrypt said received data using security parameters.

23. (Original) A server device according to claim 20, wherein said server device is configured to assign said mobile subscriber identity to a mobile device in response to a registration request.

24. (Original) A server device according to claim 23, wherein said server device is configured to assign a public user address in response to said registration request.

25. (Currently Amended) A server device according to claim 24, wherein said public user address comprises one of an ~~IP~~-internet protocol address and an email address.

26. (Previously Presented) A server device according to claim 24, further comprising:

a storing unit configured to store a table linking an assigned public user address to said assigned mobile subscriber identity.

27. (Previously Presented) A server device according to claim 21, further comprising:

a deleting unit configured to delete said received data from a queued data stream in response to receipt of a recall request.

28. (Previously Presented) A server device according to claim 20, wherein said received data comprise an email content, wherein said adder is configured to encapsulate said received email content into a radio broadcast packet, and wherein a message identity is added to a header of said radio broadcast packet.

29. (Currently Amended) A server device according to claim 20, wherein said received data comprise an ~~IP~~internet protocol packet, wherein said adder is configured to encapsulate said received ~~IP~~internet protocol packet into a radio broadcast packet, and wherein a message identity is added to a header of said radio broadcast packet.

30. (Original) A server device according to claim 28, wherein said message identity is derived from a temporary mobile subscriber identity.

31. (Previously Presented) A server device according to claim 20, wherein said gateway is configured to reject said received data, if a predetermined maximum data size is exceeded.

32. (Previously Presented) A server device according to claim 20, further comprising:

a firewall unit configured to filter said received data so as to adhere to predetermined subscription parameters.

33. (Previously Presented) A server device according to claim 20, further comprising:

a security server configured to enable exchange of security parameters with a mobile device.

34. (Original) A server device according to claim 33, wherein said parameter exchange is based on a SyncML protocol.

35. (Original) A server device according to claim 33, wherein said security parameters comprise at least one of a mobile subscriber identity and a ciphering key.

36. (Previously Presented) A server device according to claim 33, further comprising:

a security database configured to store security parameters.

37. (Original) A server device according to claim 36, wherein said stored security parameters comprise initial security parameters and temporary security parameters.

38. (Original) A server device according to claim 37, wherein authentication for connection setup to said security server means is based on said initial security parameters.

39. (Previously Presented) A server device according to claim 37, wherein said security server is configured to generate and store new temporary security parameters in response to a successful connection setup by said mobile device.

40. (Previously Presented) A server device according to claim 36, wherein said security server is configured to delete said stored security parameters if a predetermined lifetime without successful connection setup has passed.

41. (Previously Presented) A gateway device configured to provide a connection between a cellular network and a digital radio broadcast domain, configured to encrypt data received from said cellular network to be forwarded to a mobile device, and configured to forward said encrypted data to said digital radio broadcast domain based on a conditional access scheme, so that data can be received outside the coverage of said cellular network domain using a broadcast channel and a cellular channel in an alternative way.

42. (Original) A gateway device according to claim 41, wherein said conditional access scheme defines a predetermined offline time during which said mobile device has not been in a coverage area of said cellular network, and wherein data forwarding is started after expiry of said offline time.

43. (Original) A gateway device according to claim 41, wherein said gateway device is configured to trigger a recall request towards said digital radio broadcast domain if it is detected that said mobile device is in a coverage area of said cellular network.

44. (Original) A gateway device according to claim 43, wherein said gateway device is configured to detect, based on a subscriber database query, whether said mobile device is in the coverage area.

45. (Previously Presented) A system, comprising:
a cellular receiver device configured to receive data from a data source, said cellular receiving device comprising a cellular receiver configured to enable receipt of said data from said data source via a cellular network domain, and a radio broadcast access unit configured to provide conditional access to a digital radio broadcast data channel to enable receipt of said data from said data source via said digital radio broadcast data channel;

a server device configured to provide a data service to a mobile device, said server device comprising a gateway configured to receive data from said data source and for mapping a destination address of received data to a mobile subscriber identity, and an adder configured to add said mobile subscriber identity to said received data, and to put said received data with said mobile subscriber identity to a data stream to be broadcast via said digital radio broadcast channel; and

a gateway device configured to provide a connection between a cellular network and a digital radio broadcast domain, said gateway device being configured to encrypt data received from said cellular network to be forwarded to said mobile device, and to forward said encrypted data to said digital radio broadcast domain based on a conditional access scheme, so that data can be received outside the coverage of said cellular network domain using said broadcast channel and a cellular channel in an alternative way.

46. (Previously Presented) A method, comprising:

encrypting data to be forwarded;

forwarding said data to a digital radio broadcast domain based on a conditional access scheme to transmit said data to a mobile device;

defining by said conditional access scheme a predetermined offline time during which said mobile device has not been in the coverage area of a cellular network; and

starting said data forwarding after expiry of said offline time.

Claims 47-49. (Cancelled)

50. (Previously Presented) A computer program embodied on a computer readable medium, said computer program configured to perform:

encrypting data to be forwarded;

forwarding said data to a digital radio broadcast domain based upon a conditional access scheme to control one of a server device and a gateway device;

defining by said conditional access scheme a predetermined offline time during which said mobile device has not been in the coverage area of a cellular network; and

starting said data forwarding after expiry of said offline time.

Claim 51. (Cancelled)

52. (Currently Amended) ~~A cellular receiver device~~ An apparatus, comprising:
cellular receiving means for enabling receipt of data from a data source via a cellular network domain; and

radio broadcast access means for providing conditional access to said data source via a digital radio broadcast data channel to enable receipt of said data via said digital radio broadcast data channel, so that data can be received outside the coverage of said cellular network domain using said broadcast channel and a cellular channel in an alternative way.

53. (Previously Presented) A server device, comprising:

gateway means for receiving data from an external data source and for mapping a destination address of received data to a mobile subscriber identity; and

adding means for adding said mobile subscriber identity to said received data, and for putting said received data with said mobile subscriber identity to a data stream to be broadcast via a digital radio broadcast channel to provide data service to a mobile device, so that data can be received outside the coverage of a cellular network domain using said broadcast channel and a cellular channel in an alternative way.

54. (Currently Amended) A gateway device comprising:

providing means for providing a connection between a cellular network and a digital radio broadcast domain;

encrypting means for encrypting data received from said cellular network to be forwarded to a mobile device; and

forwarding means for forwarding said encrypted data to said digital radio broadcast domain based on a conditional access scheme, so that data can be received outside the coverage of said cellular network domain using a broadcast channel and a cellular channel in an alternative way.

55. (Previously Presented) A system, comprising:

cellular receiver means for receiving data from a data source, said cellular receiving means comprising cellular receiving means for enabling receipt of said data from said data source via a cellular network domain, and radio broadcast access means for providing conditional access to a digital radio broadcast data channel to enable receipt of said data from said data source via said digital radio broadcast data channel;

server means for providing a data service to a mobile device, said server means comprising gateway means for receiving data from said data source and for mapping a destination address of received data to a mobile subscriber identity, and adding means for adding said mobile subscriber identity to said received data, and for putting said received data with said mobile subscriber identity to a data stream to be broadcast via said digital radio broadcast channel; and

gateway means for providing a connection between a cellular network and a digital radio broadcast domain, said gateway means being configured to encrypt data received from said cellular network to be forwarded to said mobile device, and to forward said encrypted data to said digital radio broadcast domain based on a conditional access scheme, so that data can be received outside the coverage of said cellular network domain using a broadcast channel and a cellular channel in an alternative way.